

Subject: Aileron mass balance

Affected: Glider model "Hornet-C"
all Works-Nos.

Urgency: Action 1: Before next flight
Action 2: Until next periodical inspection

Reason: According to "1. Nachtrag (N1) zum Flatternachweis für das Segelflugzeug HORNET-C" a modification of the aileron mass balance is required. Otherwise the maximum permitted water ballast is restricted to a total of 90 kg.

Action 1: The flight & Service Manual, chapter 2.5, has to be amended on page 13. Insert ahead of the table:

max. mass of water ballast: 90 kg
(until accomplishment of Technical Note 206-9)

Action 2: The ailerons have to be fitted with an additional mass balance of 0,75 kgcm.
Position: Between 4th and 5th hinge
($y = 6,2 \div 6,7 \text{ m}$)

The following limits must not be exceeded (incl. balance mass):
Mass of aileron: min 3,53kg ; max 4,56 kg
Stat. moment on hinge line: min. 2,20 kgcm
max. 2,65 kgcm

Delete restrictive entry as per action 1 in the manual.

Material: Lead strips, rivets and instruction on installation are available from
GLASFLÜGEL, 7318 Lenningen 1, West Germany

Weight: 0,6 kg

Center of Gravity: Influence negligible

Remarks: Action 1 must be carried out by the owner and the logbook annotated accordingly.
Action 2 must be carried out under supervision of a licensed inspector and certified in the logbook of the glider.

Lenningen, den 18.08.1980

Martin Hauser

Installation of Mass Balance

Dismount ailerons by removing the supporting plates at the aileron drive. Part comes off by pushing it towards the wing root.

Place lead stripes 1 on nose joint surface, hold against nose radius and drill 8 holes, \varnothing 4 mm, in regular distances through both stripes and GRP surface.

Place one stripe on each side of the nose joint surface, insert rivets 2, place washers 3, widen rivets by a coned tool, and hammer rivets tight.

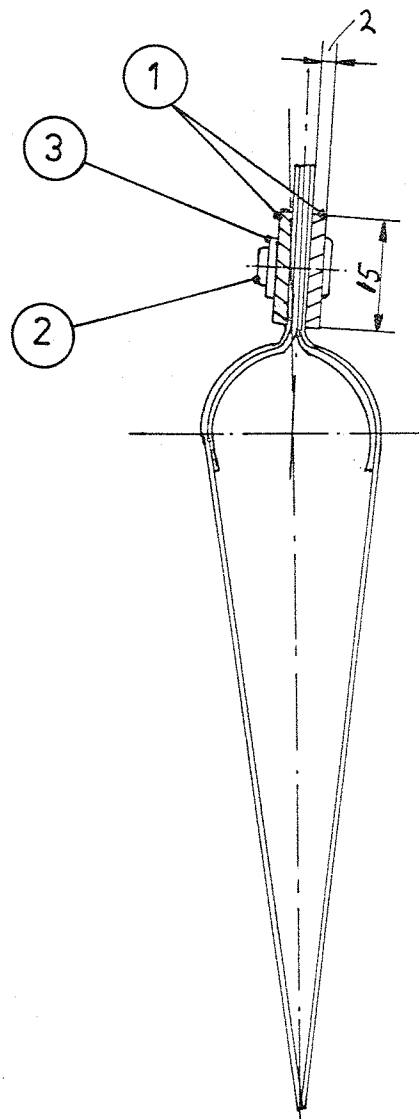
Check aileron mass and momentum (see Technical Note 206-9 for permitted values).

Mount ailerons.

Check aileron deflection.

y=6700

y=6200



Material

1	4 off	Lead stripe	2x15x500
2	16 off	Copper rivet	4x15 DIN 7338 B
3	16 off	Washer	4.3 DIN 125 -St

